

i-Tree Eco Workshop

Project Phase 1

Al Zelaya Davey Tree Expert Company















Phase I: Early Decisions & Objectives

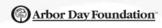
















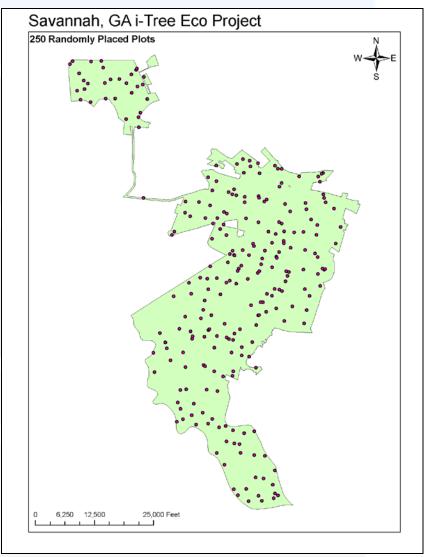


Phase 1 – Early Decisions



- Project Types
- Sample or Complete
- Importing Existing Data

Data Collection Options













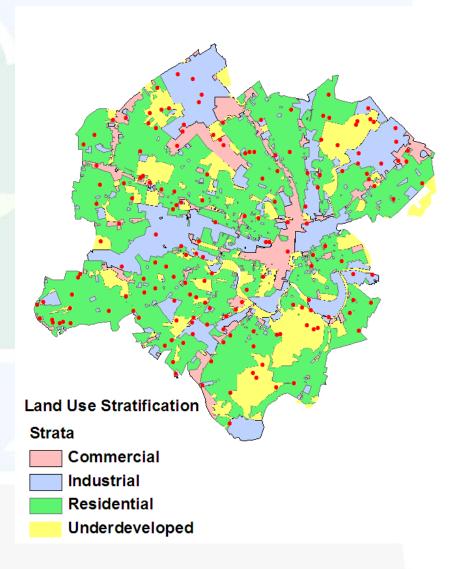




Phase 1 – Early Decisions



- Paper or PDA
- Creating a Sample
- Air Quality & Weather Data











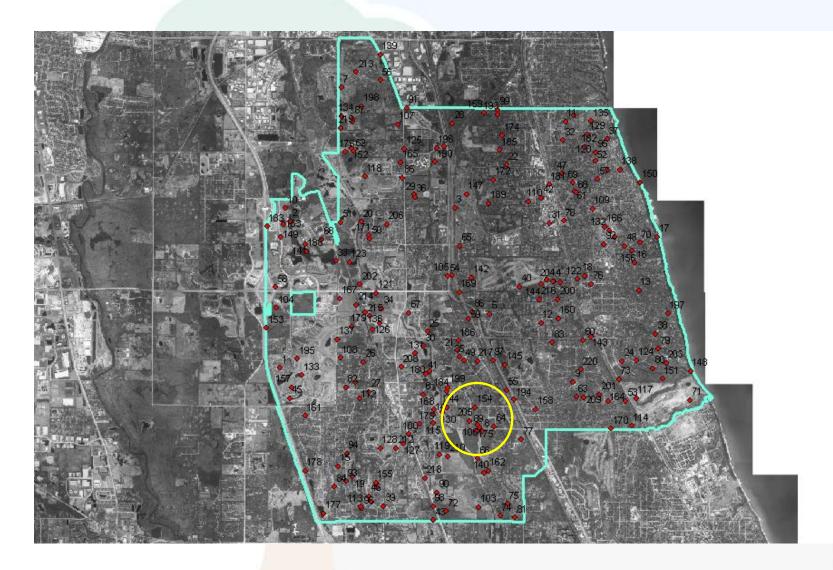






Eco Project Types (Suburb)



















Random Plots













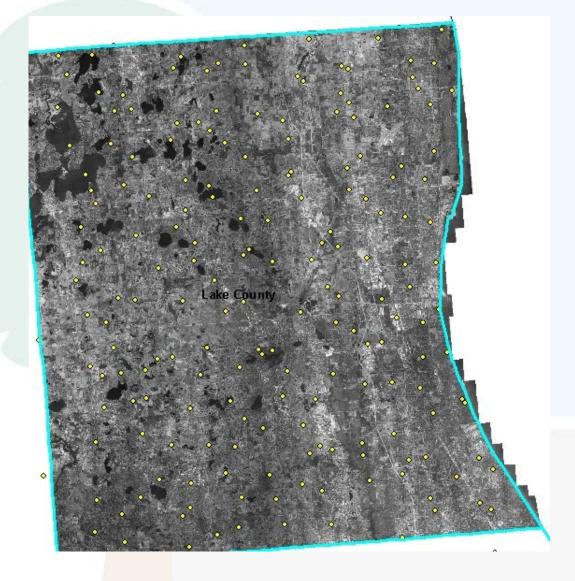






Local Government Area













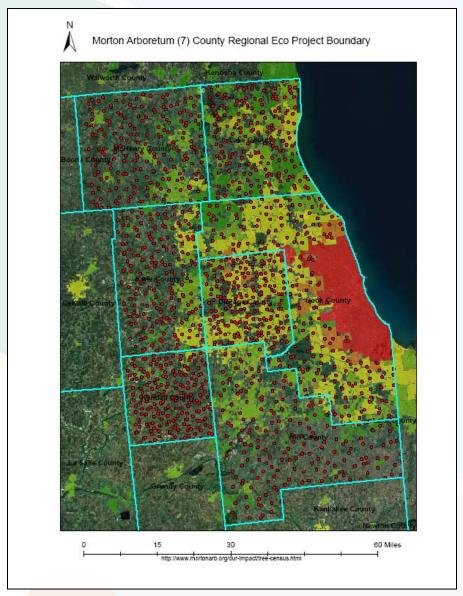






Regional Eco Project













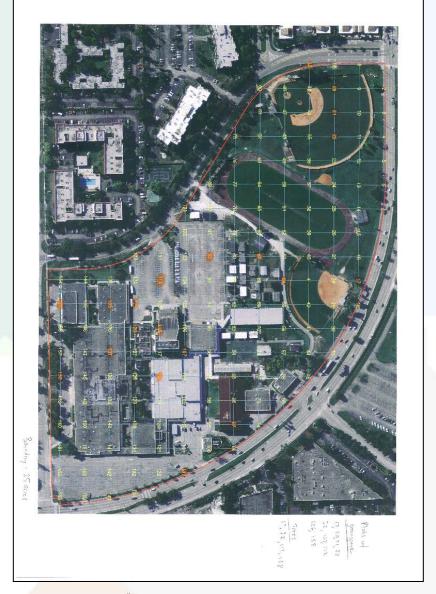






School Campus

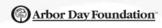












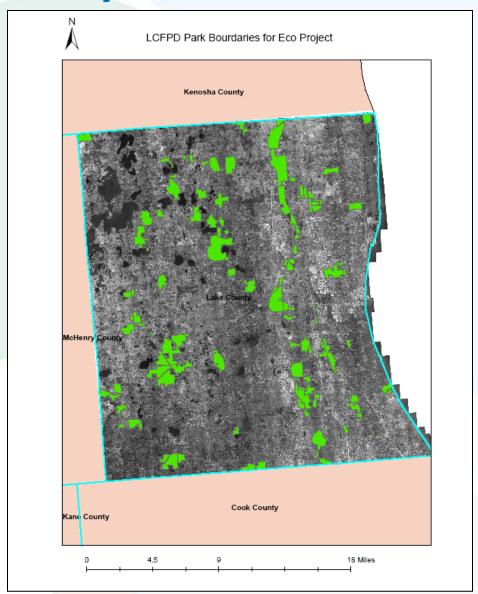






Multiple Park System















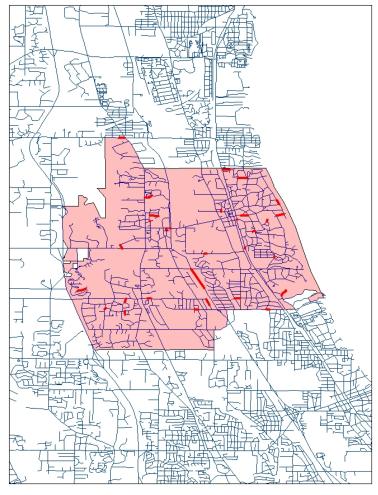




Adapting Eco for Street Trees



Lake Forest street segment example

















Adapting Eco for Street Trees



















Eco – Sample or Complete Inventory?



Complete -every tree

- ➤ Small parks
- Corporate campuses
- > Residential property
- >Specimen/legacy tree

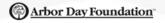
Sample inventory – plots

- ➤ Regional
- ➤ District or LGA
- **>**Suburb
- ➤ Larger scale parcels

















Eco Inventory Results Will Provide...



- Structural analysis
- Carbon sequestration & storage
- *Structural tree value (CTLA)
- Annual pollution removal & value

*Annual biogenic volatile organic compound release

















Importing Existing Data



















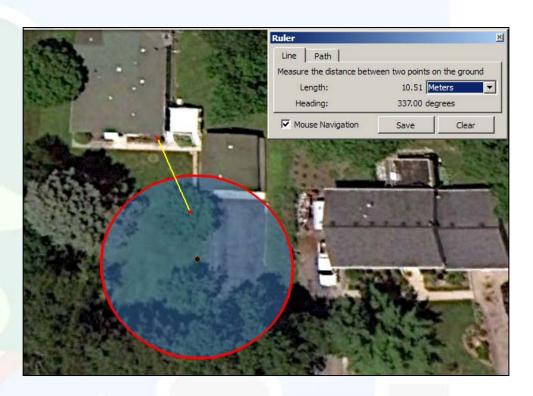
Field Data Options for Sample Projects



- Plantable space
- Energy conservation
- Shrub contributions

Hydrology information

Pest detection

















PDA or Paper Collection?





















Creating a Sample

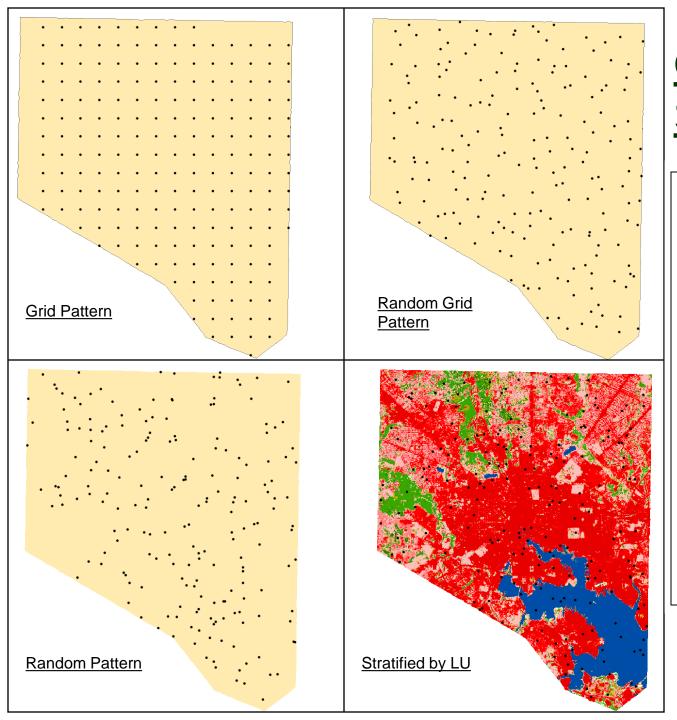
- Randomization & **Stratification Options**
- Pre vs. Post **Stratification**
- Plot Size & Quantity









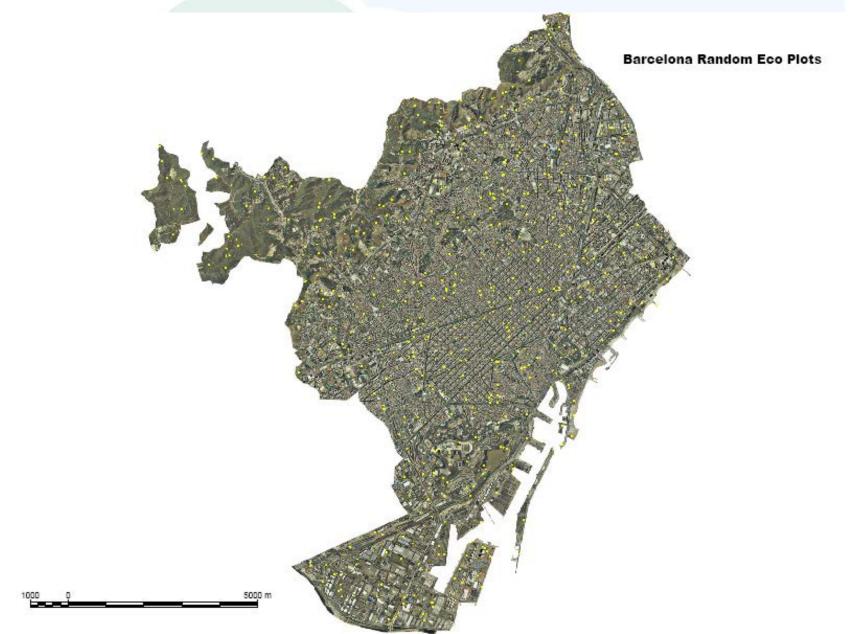


Creating a Sample



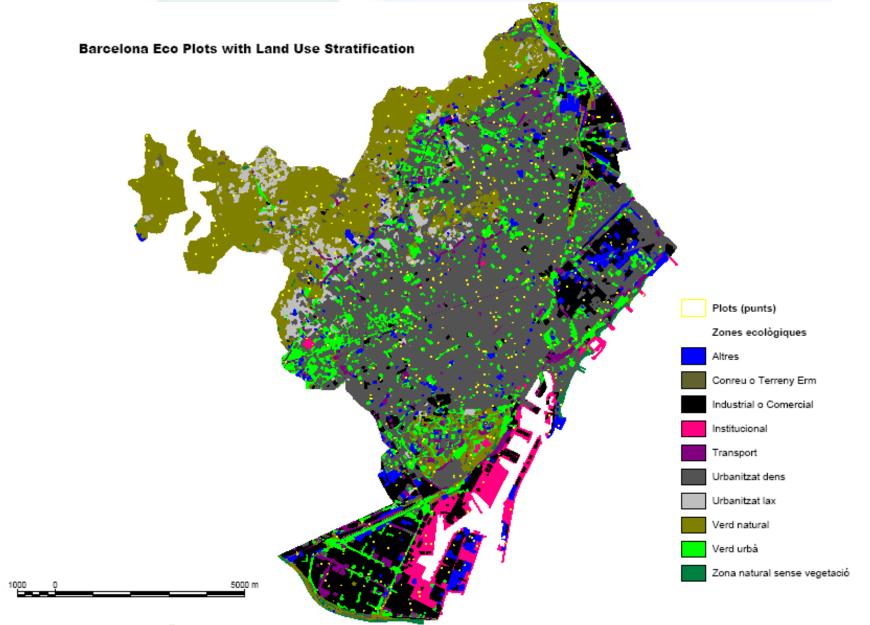
Random with no Stratification





Random with Post Stratification

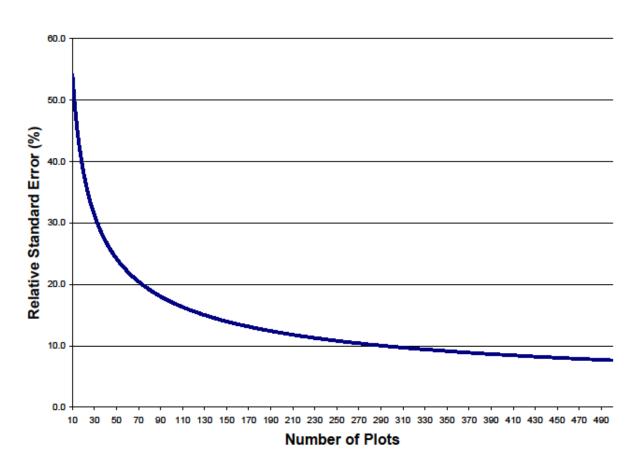




How many plots do I need?



i-Tree Eco: Relationship of Plot Quantity to Standard Error











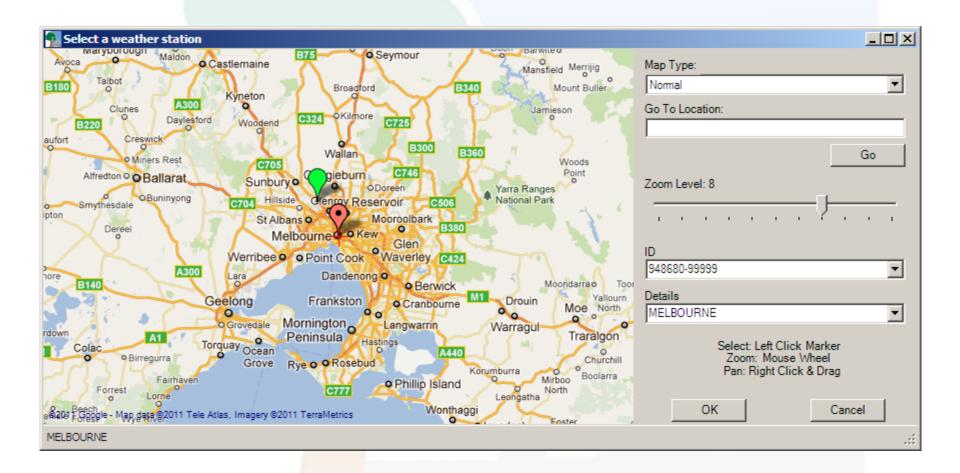






Weather & Air Pollution Data

















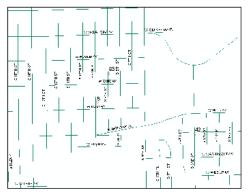


Eco Project Management Resources



Milwuakee i-Tree Eco Plot 5

Location: 3358 S 9th Pl (no response) both neighbors Yes



Dlat datail



City of Milwaukee, WI



www.itreetools.org/resources/archives.php













